

SEQUENCE LISTING

<110> Rosen, Steven  
Hemmerich, Stefan

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 <213> homo sapiens

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 Ser Trp Arg Ser Gly Ser Ser Phe Leu Gly Gln Leu Phe Ser Gln His  
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 Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Thr Thr  
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 Leu Ser Gln Gly Ser Ala Ala Thr Leu His Met Ala Val Arg Asp Leu  
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 Met Arg Ser Ile Phe Leu Cys Asp Met Asp Val Phe Asp Ala Tyr Met  
 100 105 110  
 Pro Gln Ser Arg Asn Leu Ser Ala Phe Phe Asn Trp Ala Thr Ser Arg  
 115 120 125  
 Ala Leu Cys Ser Pro Pro Ala Cys Ser Ala Phe Pro Arg Gly Thr Ile  
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 Ser Lys Gln Asp Val Cys Lys Thr Leu Cys Thr Arg Gln Pro Phe Ser

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Ala Leu Asn Leu Arg Ile Val His Leu Val Arg Asp Pro Arg Ala Val			
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Leu Arg Ser Arg Glu Ala Ala Gly Pro Ile Leu Ala Arg Asp Asn Gly			
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Ile Val Leu Gly Thr Asn Gly Lys Trp Val Glu Ala Asp Pro His Leu			
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Arg Leu Ile Arg Glu Val Cys Arg Ser His Val Arg Ile Ala Glu Ala			
245	250	255	
Ala Thr Leu Lys Pro Pro Pro Phe Leu Arg Gly Arg Tyr Arg Leu Val			
260	265	270	
Arg Phe Glu Asp Leu Ala Arg Glu Pro Leu Ala Glu Ile Arg Ala Leu			
275	280	285	
Tyr Ala Phe Thr Gly Leu Thr Leu Thr Pro Gln Leu Glu Ala Trp Ile			
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His Asn Ile Thr His Gly Ser Gly Ile Gly Lys Pro Ile Glu Ala Phe			
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His Thr Ser Ser Arg Asn Ala Arg Asn Val Ser Gln Ala Trp Arg His			
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Ala Leu Pro Phe Thr Lys Ile Leu Arg Val Gln Glu Val Cys Ala Gly			
340	345	350	
Ala Leu Gln Leu Leu Gly Tyr Arg Pro Val Tyr Ser Ala Asp Gln Gln			
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Arg Asp Leu Thr Leu Asp Leu Val Leu Pro Arg Gly Pro Asp His Phe			
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Ser Trp Ala Ser Pro Asp			
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Val Phe Tyr Gly Pro Tyr Ile Asn Val Ser Ser Cys Arg Phe Ile Asp			
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Ser Ser Asn Pro Gly Leu Gln Ile Ser Leu Asn Val Asn Asn Thr Glu			
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His Val Val Ser Ile Val Thr Asp Tyr His Asn Leu Lys Thr Arg Phe			
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Asn Tyr Leu Gly Phe Gly Gly Phe Ala Ser Val Ala Asp Gln Gly Gln			
115	120	125	

Ile Thr Arg Phe Gly Leu Gly Thr Gln Ala Ile Val Lys Pro Val Arg  
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 Asp Ile Pro Glu Thr Glu Leu Glu Ile Asp Ser Phe Val Asp Ala Cys  
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<213> homo sapiens

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Arg Met Val Gly Tyr Lys Asp Trp Leu Val Glu Asn Ala Pro Gly Asp  
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Trp Tyr Asp Pro Gln Leu Thr Pro Gln Pro Pro Ala Asp Tyr Gly Thr

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Ser Ala Phe Phe His Asn Leu Asp Ile Asp Phe Lys Tyr Ile Pro Tyr			
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His Tyr Lys Met Phe Trp Phe Asp His His Gly Asn Ser Pro Met Ala			
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Ser Ile Gln Glu Ala Glu Gln Ala Ala Glu Phe Lys Lys Arg Trp Thr			
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Gln Phe Val Asn Val Thr Phe Gln Met Glu Ser Thr Ile Thr Arg Ile			
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Ala Tyr Val Phe Tyr Gly Pro Tyr Ile Asn Val Ser Ser Cys Arg Phe			
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Thr Glu His Val Val Ser Ile Val Thr Asp Tyr His Asn Leu Lys Thr			
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Arg Phe Asn Tyr Leu Gly Phe Gly Gly Phe Ala Ser Val Ala Asp Gln			
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Gly Gln Ile Thr Arg Phe Gly Leu Gly Thr Gln Ala Ile Val Lys Pro			
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Val Arg His Asp Arg Ile Ile Phe Pro Phe Gly Phe Lys Phe Asn Ile			
770	775	780	
Ala Val Gly Leu Ile Leu Cys Ile Ser Leu Val Ile Leu Thr Phe Gln			
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Trp Arg Phe Tyr Leu Ser Phe Arg Lys Leu Met Arg Trp Ile Leu Ile			
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Leu Val Ile Ala Leu Trp Phe Ile Glu Leu Leu Asp Val Trp Ser Thr			
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Cys Ser Gln Pro Ile Cys Ala Lys Trp Thr Arg Thr Glu Ala Glu Gly			

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 Asp Phe Lys Leu Asn Arg Arg Leu His Pro Asn Leu Tyr Phe Asp Ala  
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 Gly Asp Ile Gln Thr Leu Lys Gln Lys Ser Arg Thr Ser His Leu His  
 65 70 75 80  
 Ile Phe Arg Ala Ile Lys Ser Ala Val Thr Ile Met Leu Ser Asn Pro  
 85 90 95  
 Ser Tyr Tyr Leu Pro Pro Lys His Ala Glu Phe Ala Ala Lys Trp

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Asn Glu Ile Tyr Gly Asn Asn	Leu Pro Pro	Leu Ala Leu
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Leu Cys Pro Glu Asp Lys Val	Ala Phe Glu Phe	Val Met Glu Tyr Met
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Asp Arg Met Val Ser Tyr Lys Asp	Trp Leu Val	Glu Asn Ala Pro Gly
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Asp Glu Val Pro Val Gly His Ser	Leu Thr Gly	Phe Ala Thr Ala Phe
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Asp Phe Leu Tyr Asn Leu Leu	Gly Asn Gln Arg	Lys Gln Lys Tyr Leu
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Glu Lys Ile Trp Ile Val Thr	Glu Glu Met	Tyr Glu Tyr Ser Lys Ile
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Arg Ser Trp Gly Lys Gln Leu	Leu His Asn His	Gln Ala Thr Asn Met
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Met Phe Leu Leu Lys His Ile Val	Asp Gly Ser	Leu Asp Glu Gly Val
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Ala Tyr Gly Ser Tyr Thr Ser	Lys Ser Val Thr	Gln Tyr Val Phe Leu
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Ala Gln Arg His Phe Asn Ile	Asn Asn Phe Asp	Asn Asn Trp Leu Lys
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Met His Phe Trp Phe Tyr Tyr	Ala Thr Leu	Leu Pro Gly Tyr Gln Arg
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Thr Val Gly Ile Ala Asp Ser	Asn Tyr Asn Trp	Phe Tyr Gly Pro Glu
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Ser Gln Leu Val Phe Leu Asp	Lys Phe Ile	Leu Gln Asn Gly Ala Gly
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Asn Trp Leu Ala Gln Gln	Ile Arg Lys His	Arg Pro Lys Asp Gly Pro
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Ile Trp Tyr Asp Pro Thr	Leu Thr Pro Gln	Pro Pro Val Asp Phe Gly
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Gly Gly Leu Pro Asn Thr Gln	Thr Asn Thr	Phe Val Ser Phe Lys Ser
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Gly Lys Leu Gly Gly Arg Ala	Val Tyr Asp Ile	Val His Phe Gln Pro
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Tyr Ser Trp Ile Asp Gly	Trp Arg Ser	Phe Asn Pro Gly His Glu His
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Pro Asp Gln Asn Ser Phe	Thr Phe Ala	Pro Asn Gly Gln Val Phe Val
465	470	475
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485	490	495
Val Phe Ala Pro Ser Pro	Ser Ser Gln Cys	Asn Gln Pro Trp Glu Gly
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Gln Leu Gly Glu Cys Ala Gln	Trp Leu Lys	Trp Thr Gly Glu Glu Val
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Gly Asp Ala Ala Gly Glu	Val Ile Thr	Ala Gln His Gly Asp Arg

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Val	Ser	Ala	Phe	Phe	His	Asn	Leu	Asp	Ile	Asp	Phe	Lys	Tyr	Ile	Pro
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Tyr	Lys	Phe	Met	Asn	Arg	Tyr	Asn	Gly	Ala	Met	Met	Asp	Val	Trp	Asp
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Ala	His	Tyr	Lys	Met	Phe	Trp	Phe	Asp	His	His	Gly	Asn	Ser	Pro	Val
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Ser	Arg	Phe	Ser	Tyr	Leu	Gly	Phe	Gly	Gly	Phe	Ala	Ser	Val	Ala	Asn
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Gln	Gly	Gln	Ile	Thr	Arg	Phe	Gly	Leu	Gly	Thr	Gln	Glu	Ile	Val	Asn
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Ala Glu Tyr Ile Arg Ala Leu Arg Arg His Leu Val Tyr Tyr Pro Ser		
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His Phe Phe Gln Glu Val Leu Gly Thr Ser Met Arg Ala Leu Tyr Ile		
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Val Arg Asp Pro Arg Ala Trp Ile Tyr Ser Val Leu Tyr Gly Ser Lys		
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Pro Ser Leu Tyr Ser Leu Lys Asn Val Pro Glu His Leu Ala Lys Leu		
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Phe Lys Ile Glu Glu Gly Lys Ser Lys Cys Asn Ser Asn Ser Gly Tyr		
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Ala Phe Glu Tyr Glu Ser Leu Lys Lys Glu Leu Glu Ile Ser Gln Ser		
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Ala Leu Arg Ile Asn Thr Asp Leu Leu Pro Thr Asn Tyr His Leu Val		
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Lys Phe Glu Asp Ile Val His Phe Pro Gln Lys Thr Thr Glu Arg Ile		
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Phe Ala Phe Leu Gly Ile Pro Leu Ser Pro Ala Ser Leu Asn Gln Met		
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Leu Phe Ala Thr Ser Thr Asn Leu Phe Tyr Leu Pro Tyr Glu Gly Glu		
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Ile Ser Pro Ser Asn Thr Asn Ile Trp Lys Thr Asn Leu Pro Arg Asp		
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gc <u>attactca</u> <u>cagggcc</u> <u>ttt</u> <u>ggtgactgga</u> <u>gtagataaaag</u> <u>gatctaaagc</u> <u>aaatatatgg</u>	780
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gg <u>ttcttgg</u> <u>atgaagg</u> <u>ttgt</u> <u>ggcctatgga</u> <u>agctacacag</u> <u>ctaaatccgt</u> <u>cacacagtat</u>	900
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<212> DNA

<213> mouse

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